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(54) REVERSIBLE THERMAL RECORDING MATERIAL

(57)Abstract:

PURPOSE: To obtain a reversible thermal recording material capable of forming a high contrast image and easy to control temp., by containing a metal salt of higher fatty acid in a thermal layer.

CONSTITUTION: In a reversible thermal recording material based on a resin base material and the org. low-molecular substance dispersed in said resin base material and having a thermal layer reversibly changing in its transparency dependent of temp., a metal salt of higher fatty acid is further contained in the thermal layer. When the metal salt of higher fatty acid is added to the thermal layer, the org. low-molecular substance dispersed in the resin base material generates an eutectic phenomenon at the time of heating and the transparentizing temp. range T1WT2 of the thermal layer is widened. Further, when the thermal layer is heated to temp. of T3 or more and cooled to ambient temp. of T0 or less to be made opaque, the growth of the crystal of the org. low-molecular substance is suppressed in the presence of the metal salt of higher fatty acid and a gathering state of fine crystals is obtained, and as a result, the light scattering of said part increases and, therefore, whiteness increases and contrast is enhanced.

